

Title (en)
FLUID COOLING SYSTEM

Publication
EP 0438371 A3 19920527 (EN)

Application
EP 91630003 A 19910116

Priority
IL 9309590 A 19900118

Abstract (en)
[origin: EP0438371A2] The system for cooling fluid stored in a generally cylindrical container includes a generally cylindrical hollow coil element (130) having an engaged orientation for engaging the container and at least one disengaged orientation in which the container is disengaged. The hollow coil element (130) is configured to provide thermal engagement between a refrigerant fluid located interiorly thereof and the container when the hollow coil element (130) is in the engaged orientation. The hollow coil element (130) includes at least one elongate hollow element with a nonuniform generally spiral configuration, wherein the spiral defines a plurality of turns of the elongate hollow element (130). There is also disclosed a system for cooling gaseous fluid stored in a selectably disengageable container. The system includes receiving apparatus for selectably receiving the container, cooling apparatus for providing a refrigerant fluid in thermal engagement with the container and apparatus for substantially preventing forceable egress of the gaseous fluid from the container when the container is opened. <IMAGE>

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F25D 15/00; **F25B 39/02**

IPC 8 full level
F25B 5/02 (2006.01); **F25D 15/00** (2006.01); **F25D 31/00** (2006.01)

CPC (source: EP US)
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Citation (search report)

- [YD] US 4711099 A 19871208 - POLAN GEORGE S [US], et al
- [Y] DE 3213992 A1 19831027 - HERBERTZ HEINZ
- [Y] GB 2044424 A 19801015 - ALCO FOODSERVICE EQUIP
- [AD] US 3858405 A 19750107 - MANZKE WALTER R
- [A] US 3553976 A 19710112 - CUMINE ERIC, et al
- [A] FR 2481429 A1 19811030 - ERTEMAC STE CIVILE [FR]

Cited by
DE102011088015B4; DE102014203204A1; DE102011088015A1; US9937843B2

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